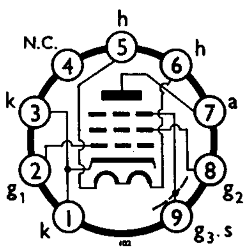
R.F. SHORT BASE PENTODES
INDIRECTLY HEATED

Z759
Z359

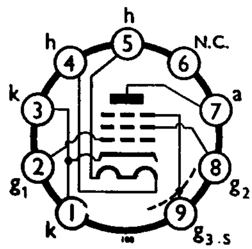
AUGUST, 1955

A high slope valve primarily designed for use as a video amplifier and for wide-band amplifiers.

BASE CONNECTIONS AND VALVE DIMENSIONS



Z759



Z359

View from underside of base.

Base : B9A
Bulb : Tubular

Overall length :	49—55	mm.
Seated length :	43—49	mm.
Diameter :	22 max.	mm.

HEATERS

	Z759	Z359	
V_h	6·3	12·6	V
I_h	0·6	0·3	A

MAXIMUM RATING (design centre)

V_a	300	V
V_{g2}	250	V
$V_{h\text{-}k\ pk}$	150	V
p_a	5	W
p_{g2}	1·5	W

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
I_a	20	mA
I_{g2}	5·25	mA
V_{g1}	—2	V
g_m	15	mA/V
r_a	0·5	MΩ

CAPACITANCES (of cold screened valve)

$c_{g1\text{-}a}$ 0·007 pF c_{in} 13 pF c_{out} 2·5 pF

MOUNTING

Any position.

SCREENING

A separate external screening canister should be used.

RETAINING

The use of a retaining device is recommended.

VENTILATION

Free air circulation around the bulb is preferable. If a retaining device in the form of a canister is used the surfaces should be blackened. The temperature of the hottest part of the bulb must not exceed 250°C.

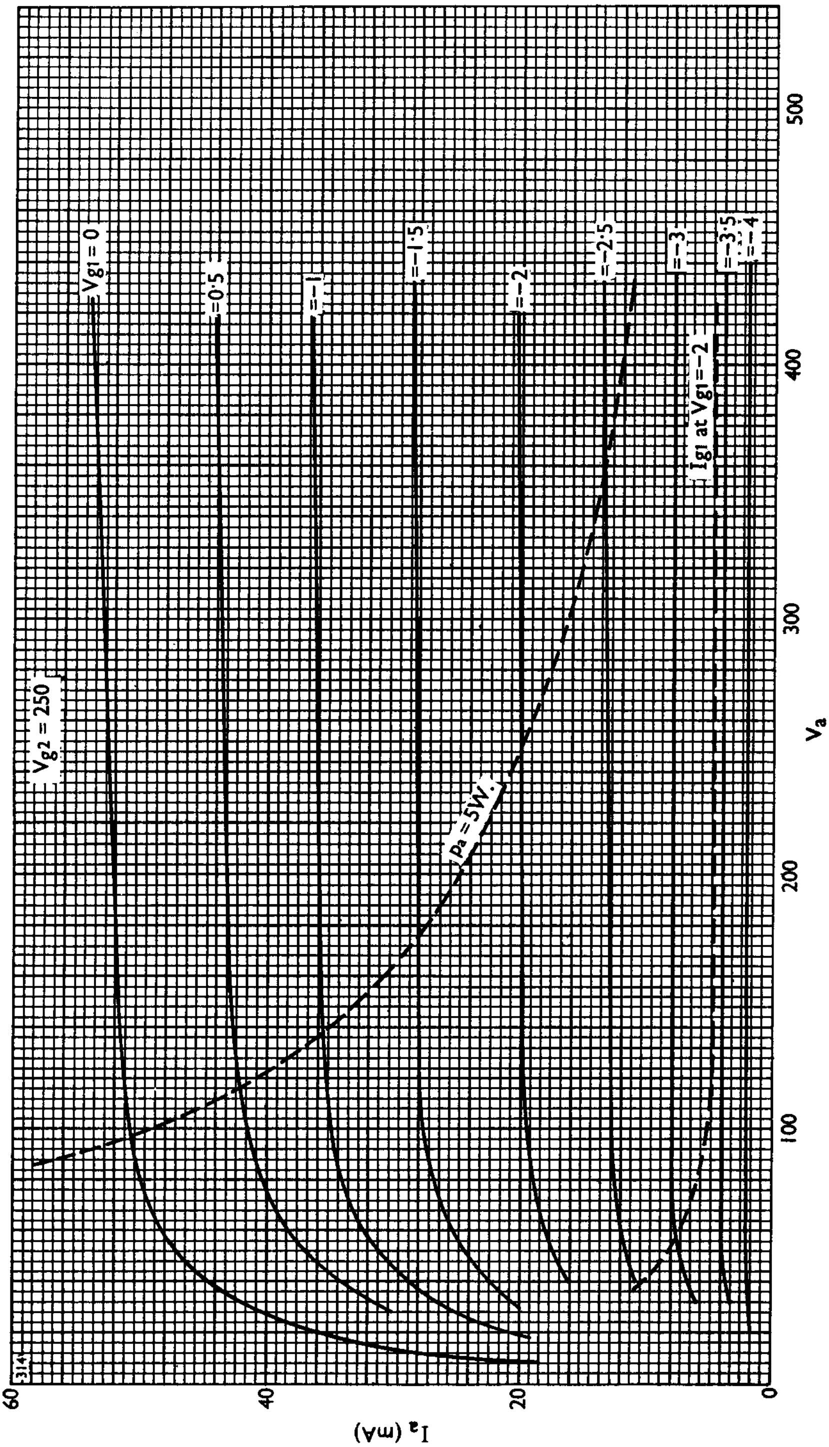
MICROPHONY

This type is free from microphony in most applications, but checks should be made under maximum gain conditions of the equipment.

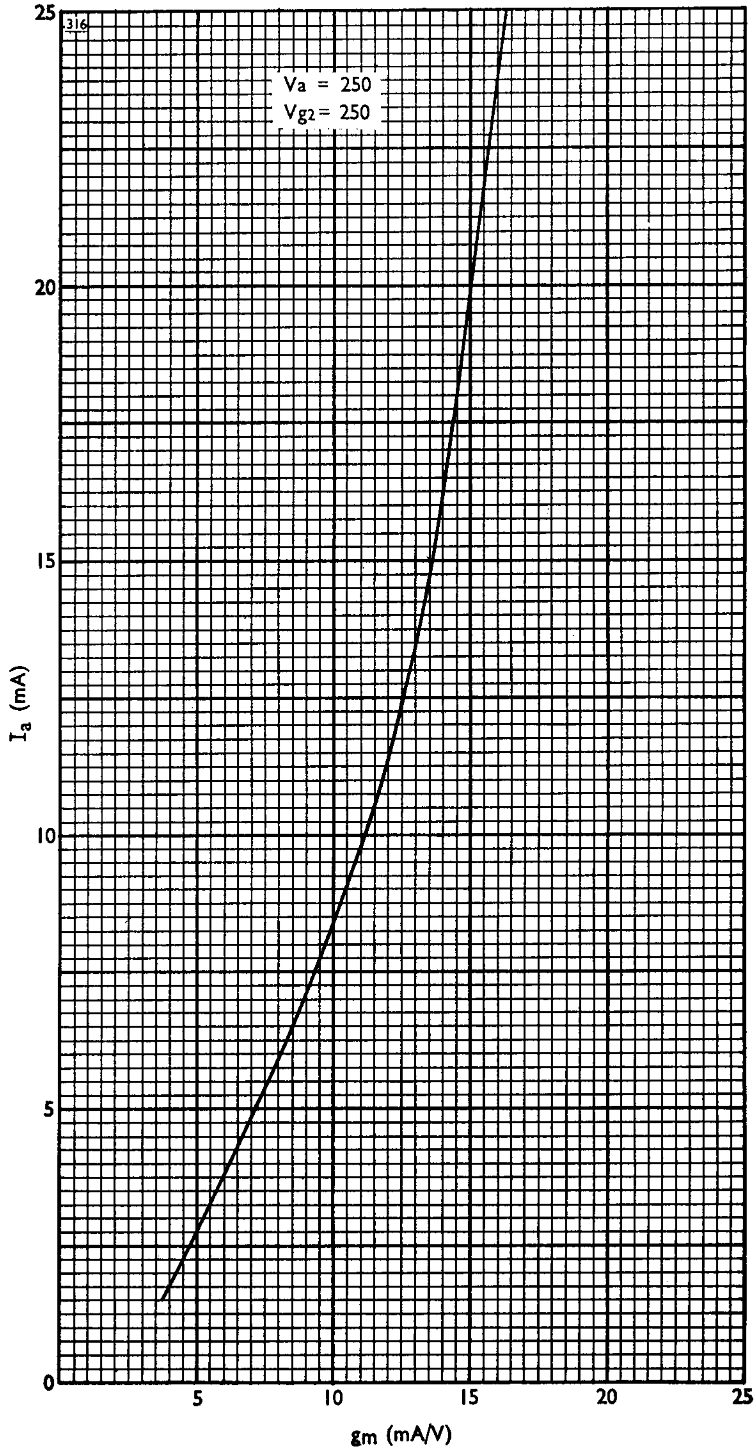
MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

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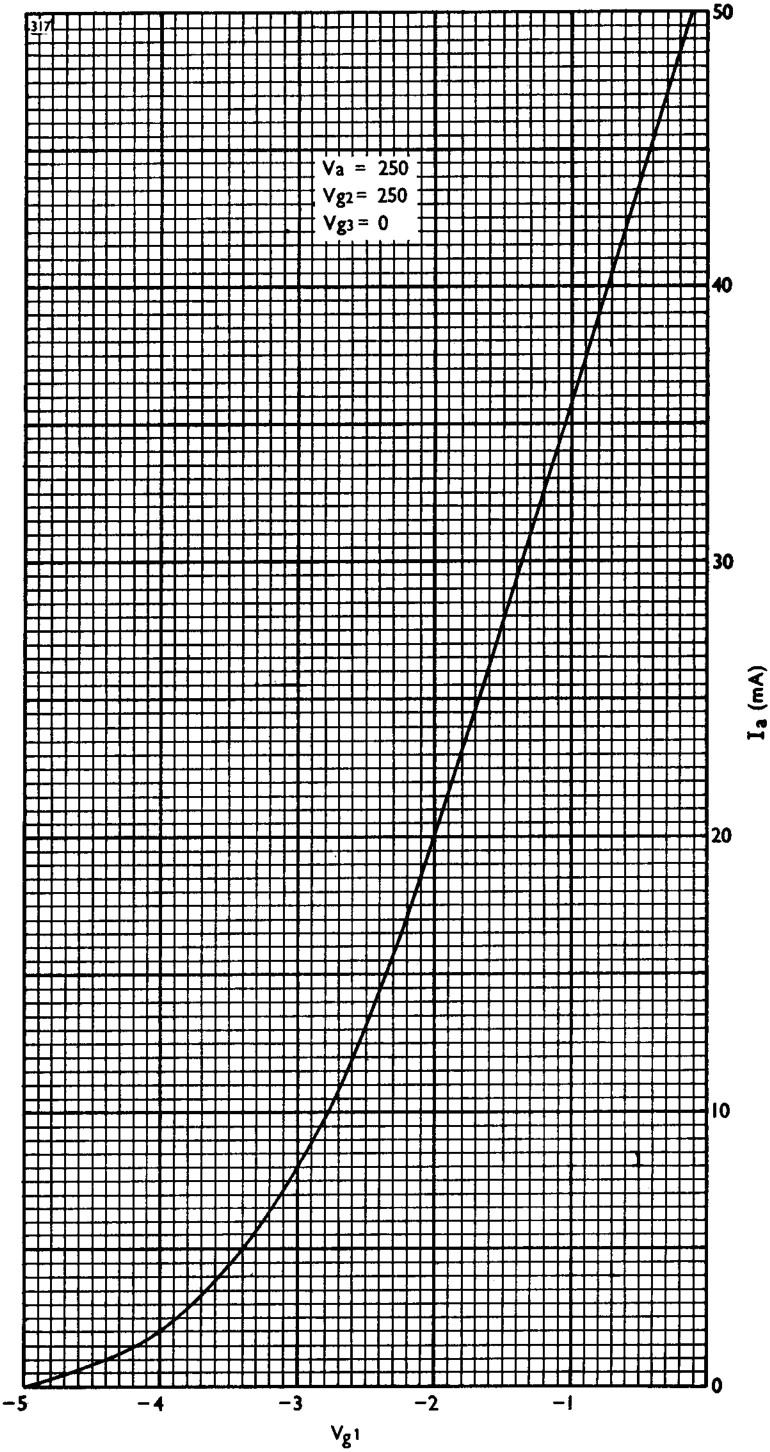
Z759 Z359



$V_{g2} = 250$
$V_{g1} = 0$
$= -0{\cdot}5$
$= -1$
$= -1{\cdot}5$
$= -2$
$= -2{\cdot}5$
$= -3$
$= -3{\cdot}5$
$= -4$
I_{g1} at $V_{g1} = -2$
$P_a = 5W.$
V_a
I_a (mA)
0
100
200
300
400
500
20
40
60
314


316
Va = 250
Vg2 = 250
I_a (mA)
gm (mA/V)
0
5
10
15
20
25
5
10
15
20
25

Z759 Z359



Printed in England. C.